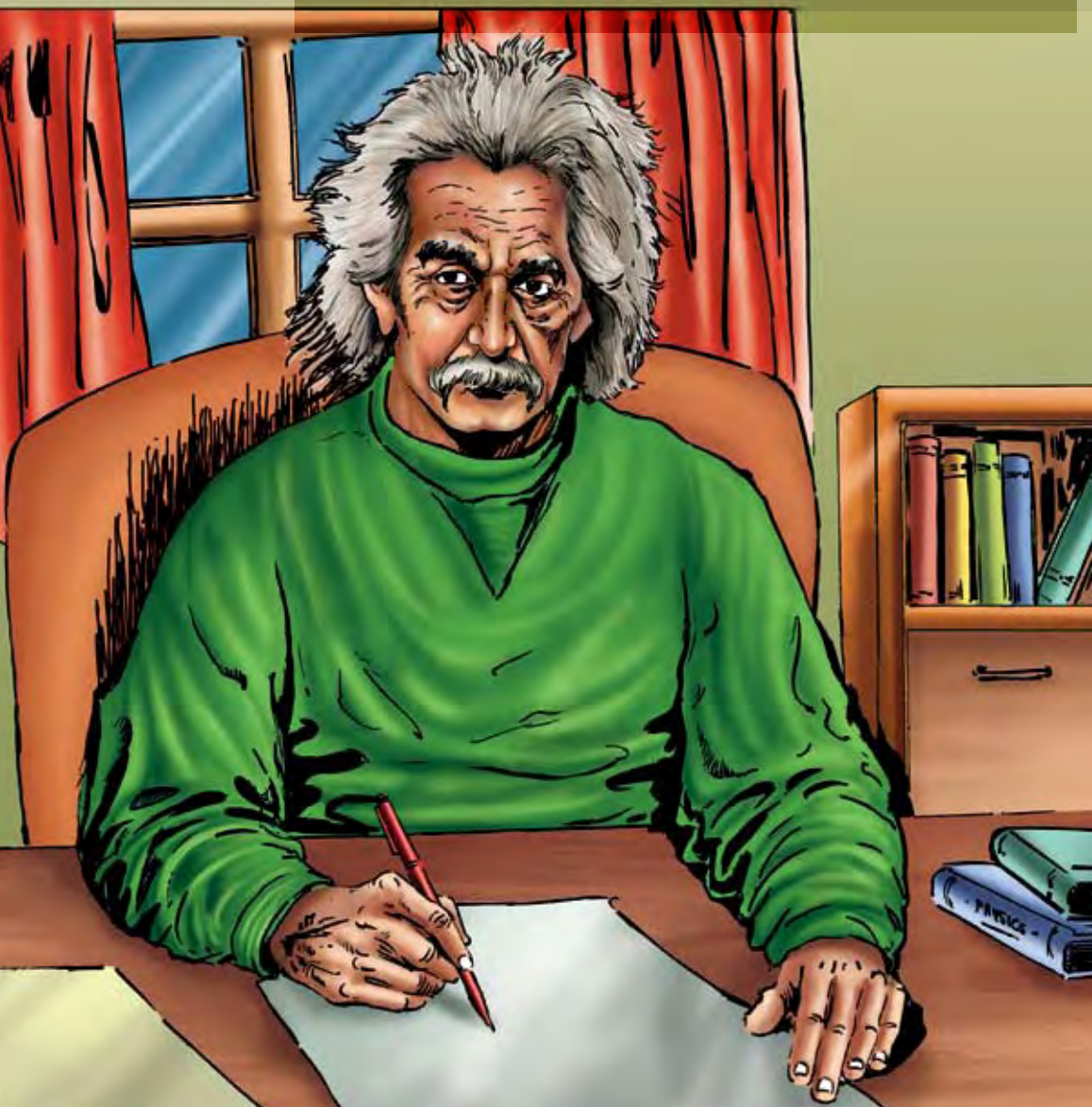
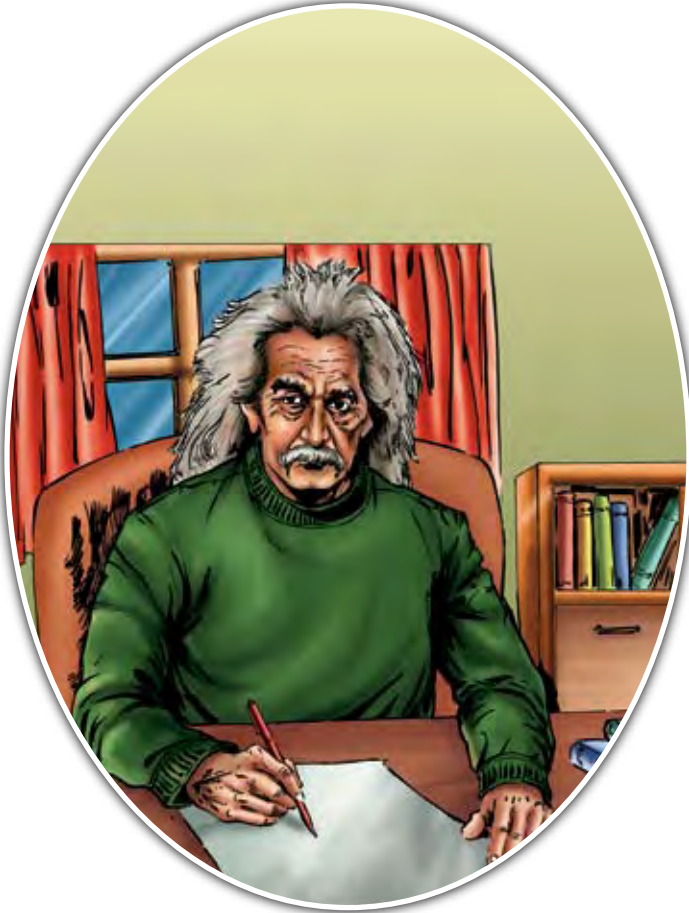


**GRAPHIC
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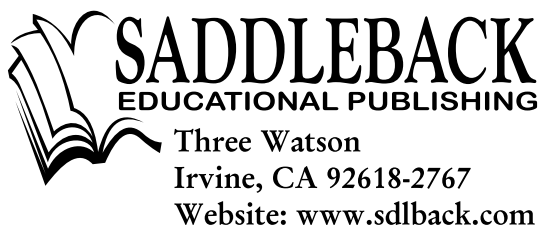
Albert Einstein



Albert Einstein



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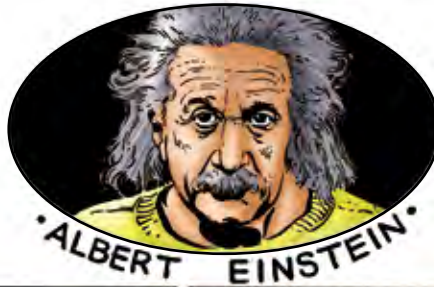
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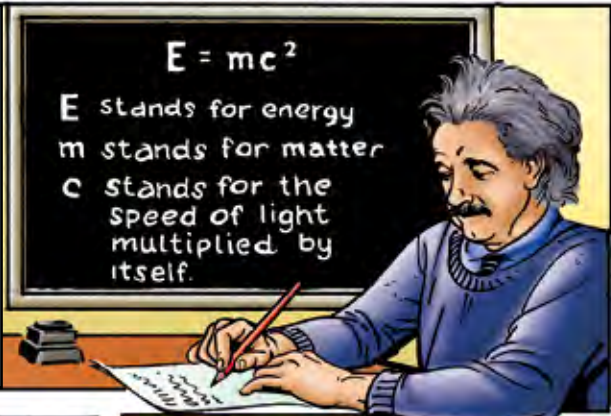
ISBN-13: 978-1-59905-212-0

eBook: 978-1-60291-575-6



Albert Einstein was born in Germany in 1879. He became famous as a scientist and as one of the most important thinkers of our times. In 1933 when the dictator Adolph Hitler came to power in Germany, Einstein left his native land for good. Einstein was a Jew. Hitler hated Jews. In 1940 Albert Einstein became a citizen of the United States.

Although he made many important discoveries, he is best known for his theory of relativity. This law became the most famous equation in science. It read $E=mc^2$. "E" stands for energy, "m" stands for matter, and "c" stands for the speed of light multiplied by itself.



One day when five-year-old Albert was ill, his father bought him a gift.

My son, I have bought you a compass.

What's it for?



No matter how you hold it, the iron needle always points north. Sailors use it to find their way on the ocean.





He thought about the
compass for a long time.



Albert especially liked to listen to his mother and friends perform Mozart's violin sonatas.



One day ...

This is for you!
You must have
music lessons.



He went to
the teacher.

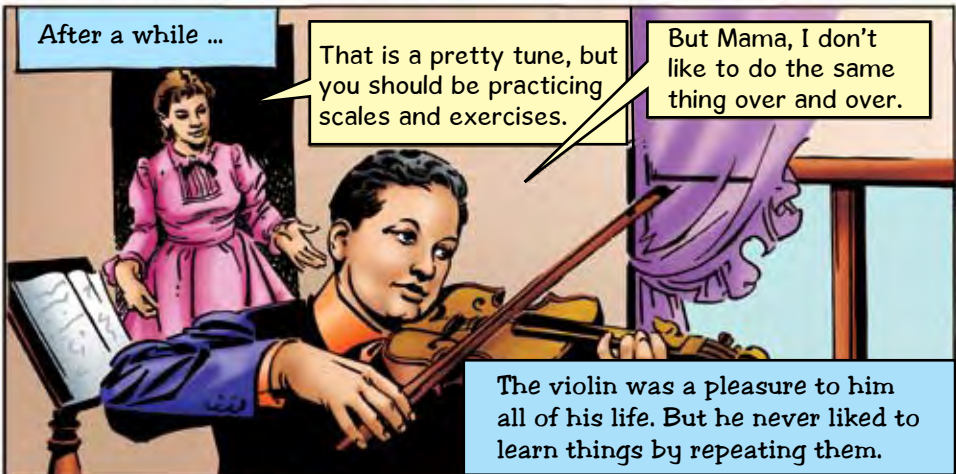
Practice,
practice,
practice!
Always scales
and exercises!



After a while ...

That is a pretty tune, but
you should be practicing
scales and exercises.

But Mama, I don't
like to do the same
thing over and over.



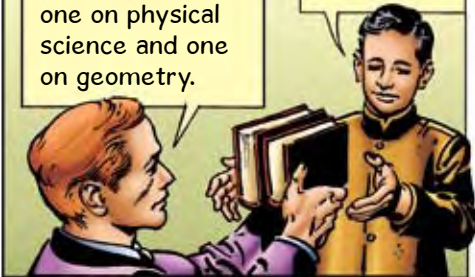
The violin was a pleasure to him
all of his life. But he never liked to
learn things by repeating them.



Later a young friend gave him books.

I have brought you two books you may like, one on physical science and one on geometry.

Thank you very much!



A few weeks later ...

Oh, Max! Good! There's a problem here you must help me solve.

I am sorry, Albert. You are already far beyond me in physics and higher mathematics!



But at school ...

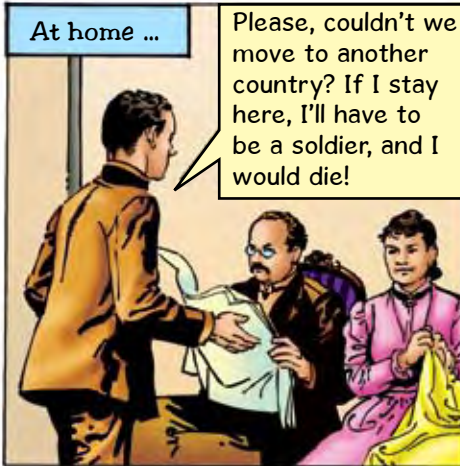
Please, sir. May I ask ...

You are not to ask questions! You are to memorize what is in your books, and recite it when you are asked.



School is like the army. The teachers are officers. Everyone must do what he is told and be just like everyone else!







But after a few months ...

You must prepare to earn a living. Perhaps you should become an electrical engineer.

Where will he train? Without a diploma he can't go to a university.



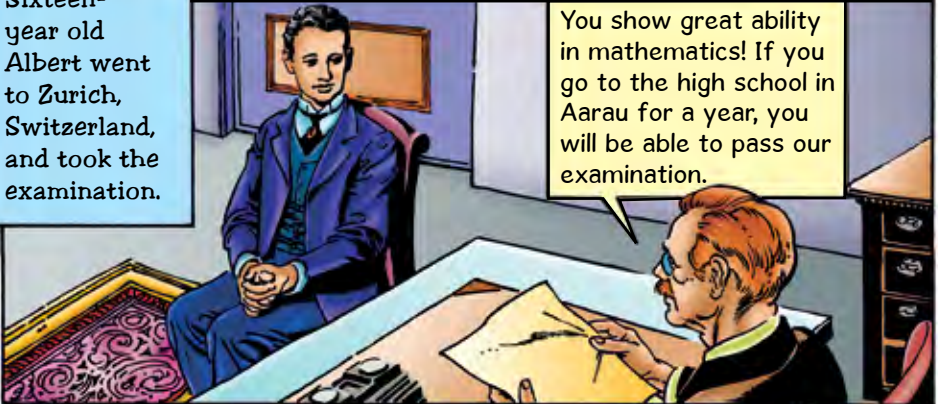
The Swiss Federal Polytechnic Institute requires only that you pass an entrance examination. You are too young for it, but it is worth trying.



Sixteen-year old Albert went to Zurich, Switzerland, and took the examination.

He failed. But the school principal spoke to him.

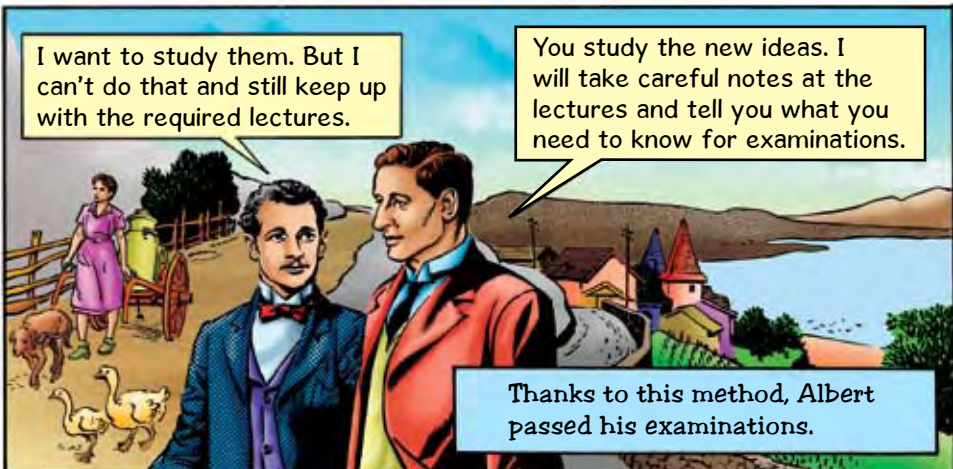
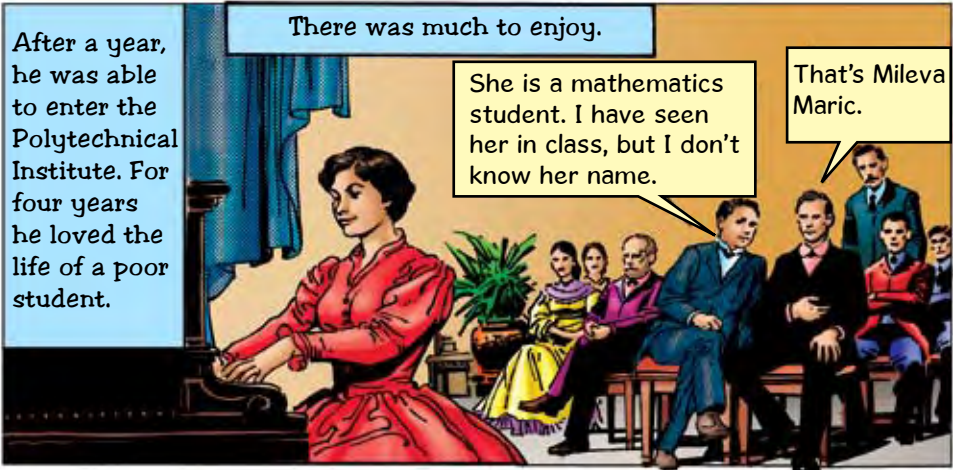
You show great ability in mathematics! If you go to the high school in Aarau for a year, you will be able to pass our examination.

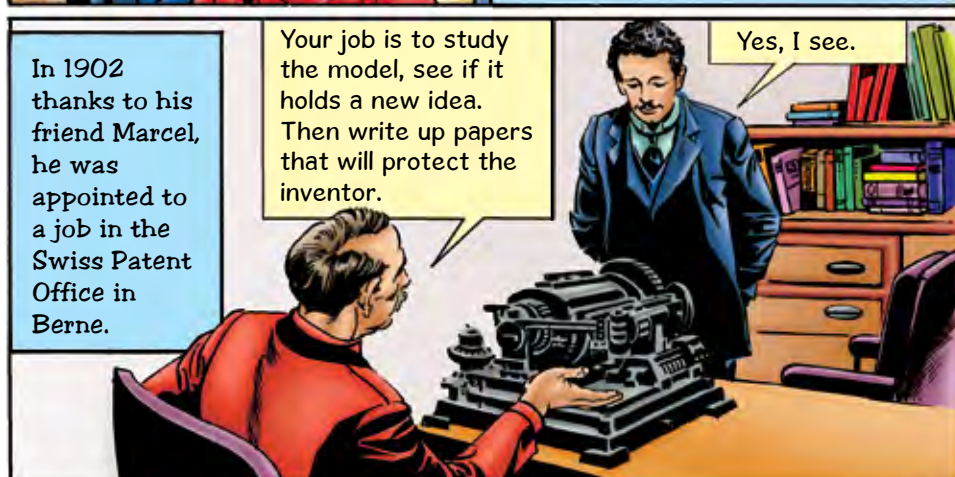
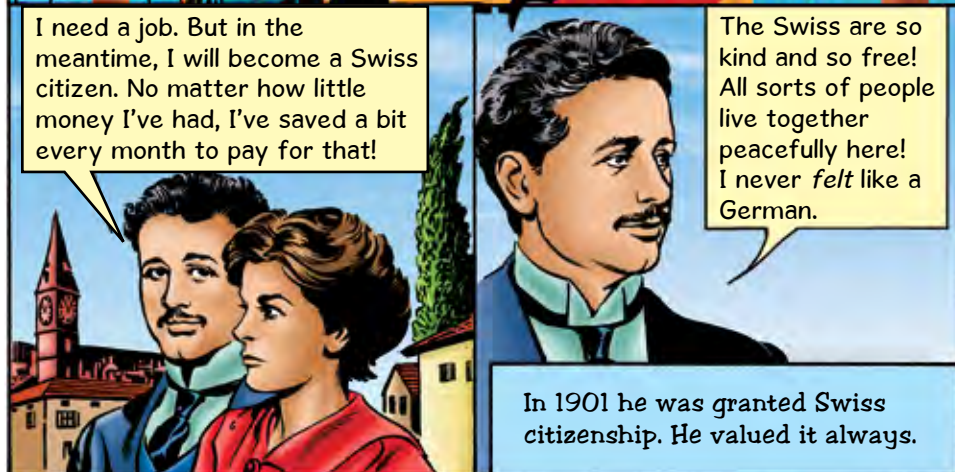


Aarau was 20 miles from Zurich. Albert lived with a teacher's family. He loved the school, the people, and Switzerland.

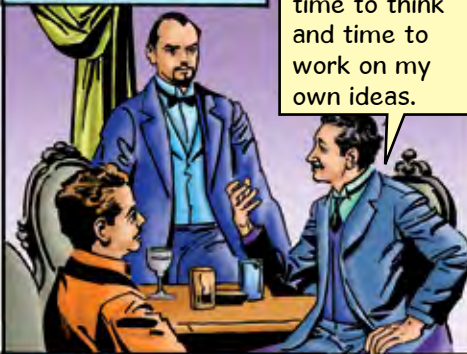
Switzerland and the school are wonderful! You don't order people around. You answer questions! You help us to think for ourselves.







He made friends
in Berne he could
talk with.



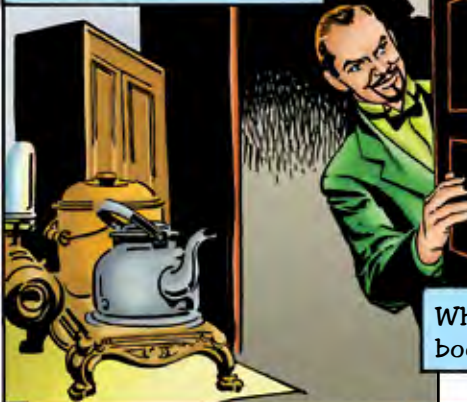
I make a living
wage. And my
job gives me
time to think
and time to
work on my
own ideas.

He sent for
Mileva, and
they were
married.



To the bride and
groom!

The next year, the
Einsteins had a son,
Hans Albert.



Albert?

Hello!
Come in!



Whatever he was doing, he always had a
book nearby.

And a
notebook
in his
pocket.

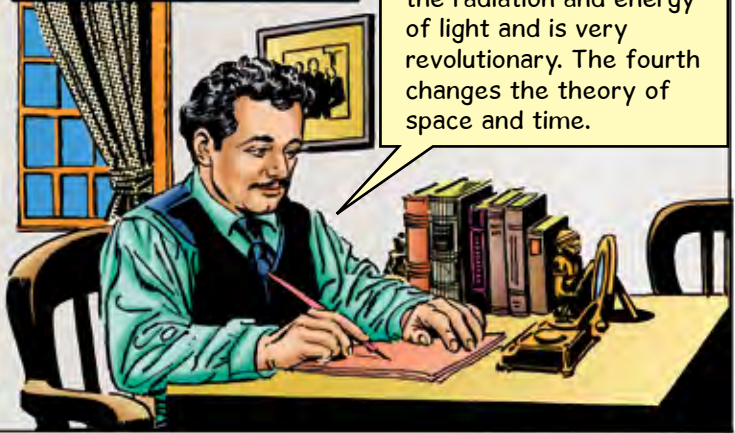
H'mm ... and
then ... yes!



In 1905 four papers he had written were published in a scientific magazine. All were important. Sixteen years later, one would help to bring him a Nobel Prize.

He wrote to a friend ...

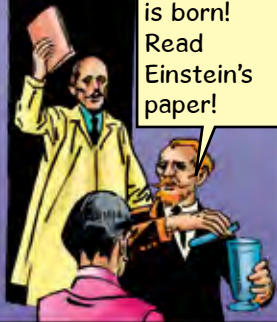
The first paper is on the radiation and energy of light and is very revolutionary. The fourth changes the theory of space and time.



Most people never heard of these papers. But scientists in the world's universities were excited.

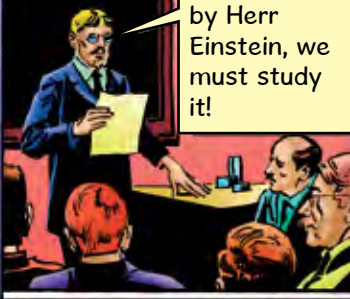
In Poland

A new Copernicus is born! Read Einstein's paper!



In Germany

An important article by Herr Einstein, we must study it!



Some felt differently ...

This Einstein is a madman.



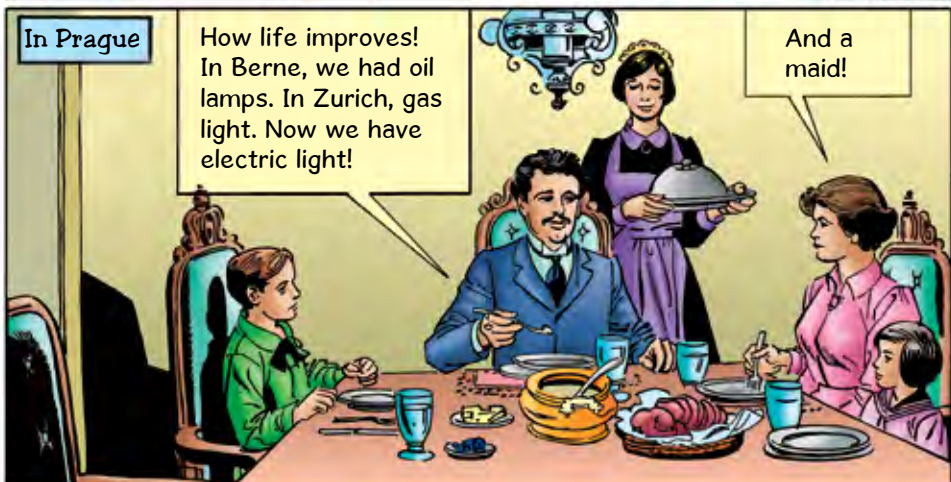
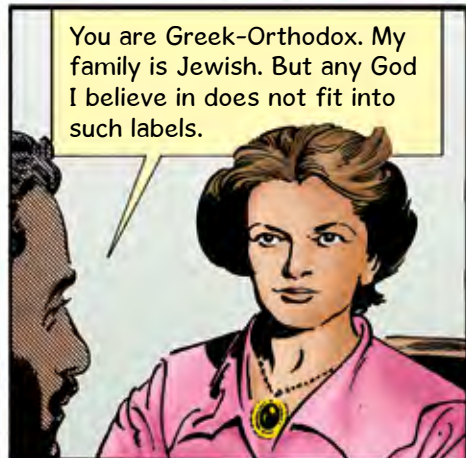
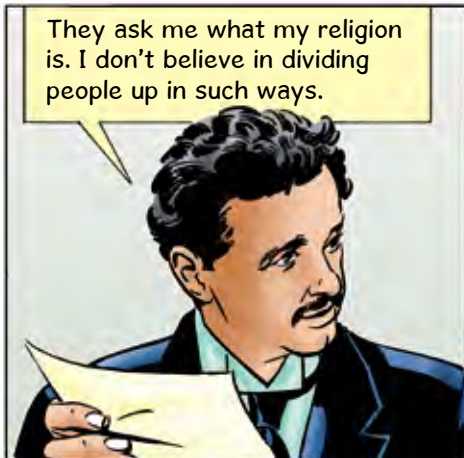
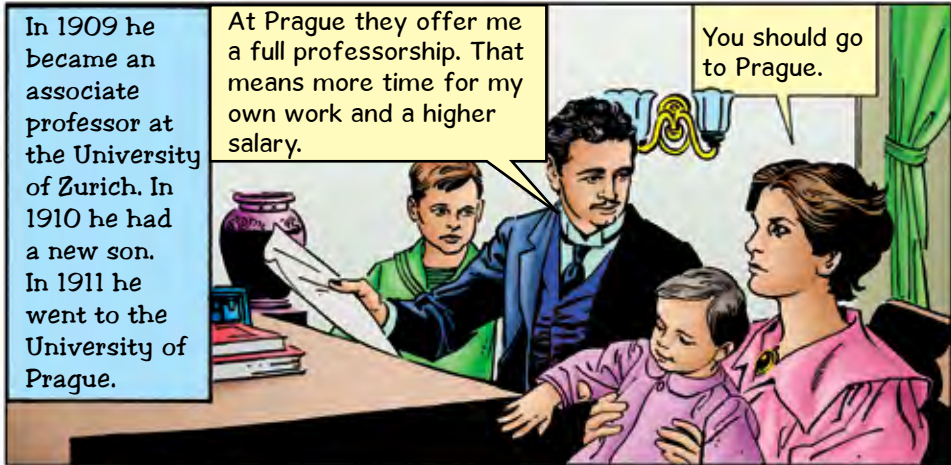
The Zurich professors were embarrassed.

This Swiss Einstein and his great theories. He is one of your professors, of course?

Well, no. But perhaps he will soon teach here!



Before, they would not hire him. Now he had a choice of jobs.



But there were other things.

The Germans look down on Czechs. The Czechs hate the Germans! The Jews are set apart from the others. Still, it is a fine university, and my work goes well.



He was becoming famous among scientists in Europe. Many universities invited him to give lectures. Several offered him jobs.

After 18 months in Prague, Einstein returned to Zurich.

The school where I failed my entrance exam, where I could not get a teaching job, now gives me a full professorship.



His lectures were popular.

Please, when you don't understand, ask questions! I believe in questions!

And sometimes afterward ...

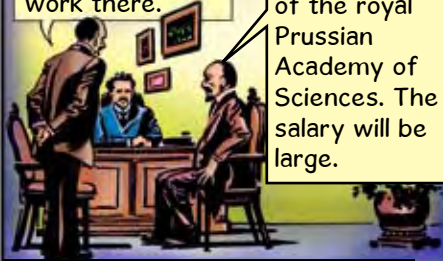
Yes, one moment, I must write this idea down.



One day he had visitors.

The best scientists in the world work in Germany. We want you to work there.

You will be head of a new Institute of Physics, a member of the royal Prussian Academy of Sciences. The salary will be large.



You may teach if you wish, or spend all your time on your own research.

It is a fine offer. But I am no longer a German, and I don't want to be one! I will come if I can remain a Swiss citizen!



The Germans agreed. The Einsteins moved to Berlin in April 1914. But soon they agreed to separate, and Mileva went back to Zurich with the boys.

Yes, it is best for us to divorce, but we will stay friends.

And if I ever win the Nobel Prize, I will give the prize money to you!



Albert found Berlin full of German soldiers.

What can such armies lead to but war and suffering?



In August, the Germans invaded Belgium. Soon they were at war with most of the world.

We have written a paper telling the world that Germany is not to blame for the war. It is signed by 93 famous German scientists, writers, artists. Will you sign it?

Certainly not!

Instead he joined with the pacifist, George Nicolai.

We will appeal to the Germans who want to work together with the rest of Europe for peace instead of war.

Yes, unity and peace, instead of nationalism and war!

They could find only two other Germans to sign their paper. But Einstein wrote letters, went to meetings, and made speeches all aimed at bringing peace as soon as possible.

Otherwise, he buried himself in his work. And in 1915 ...

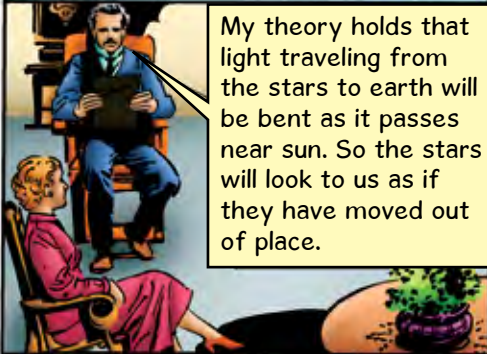
It is done. Ten years ago, the paper on my special theory of relativity. Now my general theory ...

He had relatives in Berlin. One cousin was a young widow with two daughters.

I remember you when we were small children! Do you still play the violin?

Yes, Elsa! It is one of my greatest pleasures.

In 1918 Germany surrendered and the war ended. In 1919 Albert and Elsa were married.



My theory holds that light traveling from the stars to earth will be bent as it passes near sun. So the stars will look to us as if they have moved out of place.

This could be proved during a total eclipse of the sun, when the stars would show up in the daytime.

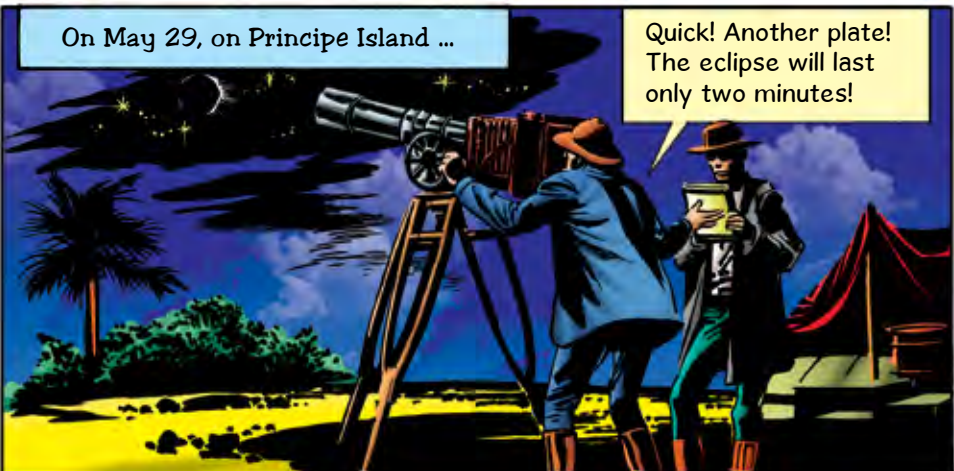


Other scientists wanted to test Einstein's theories. In England ...

If we have people in Brazil and at Principe Island off South Africa, we should get fine views of a total eclipse.



On May 29, on Principe Island ...



Did you get what you wanted?

I don't know! There were clouds. I can't tell until I develop the plates.



Then on June 3 ...

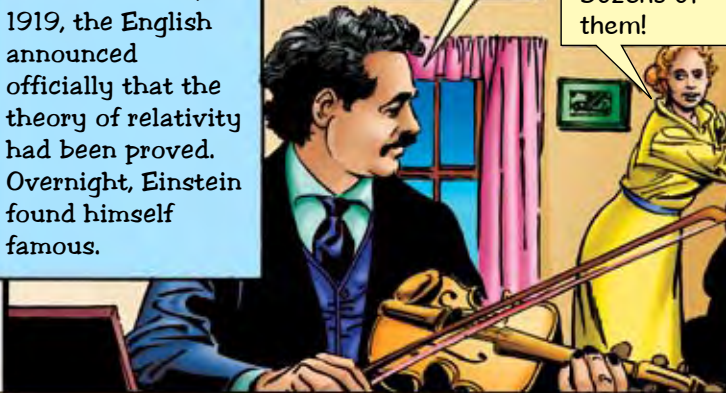
I've spent the day measuring. The results agree with Einstein!



On November 6, 1919, the English announced officially that the theory of relativity had been proved. Overnight, Einstein found himself famous.

What is it, Elsa?

Reporters! Dozens of them!

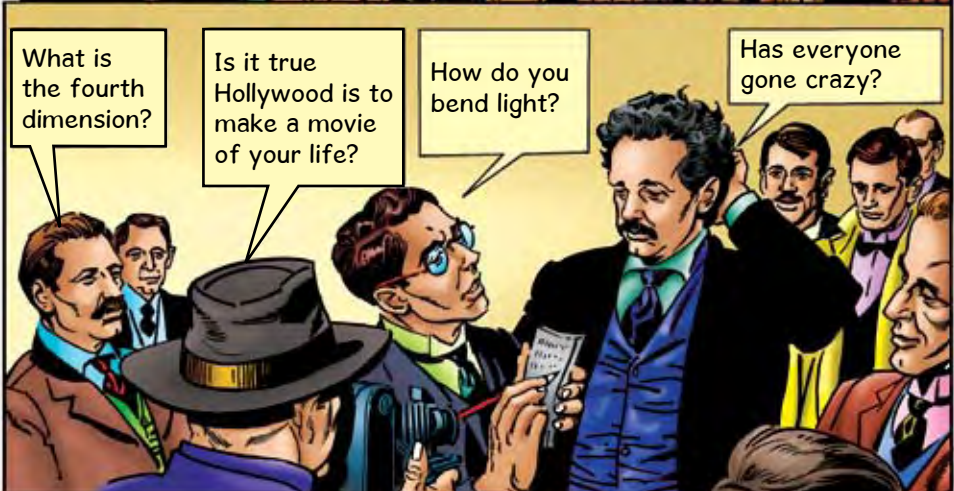


What is the fourth dimension?

Is it true Hollywood is to make a movie of your life?

How do you bend light?

Has everyone gone crazy?



There was mail from all over the world.

But what will I do with it?

There's a lot more outside!



And when he went out ...

Your autograph, Professor Einstein?

Don't move! I want your picture!



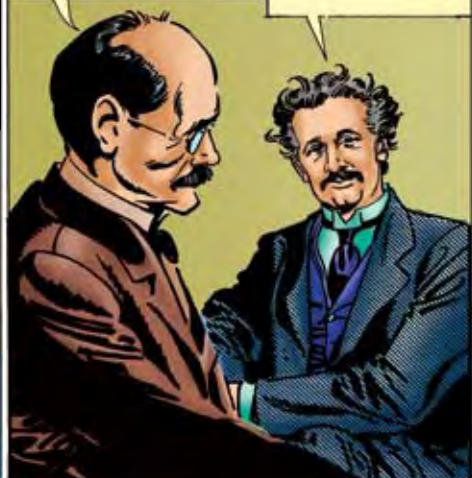
Scientists honored him, and he was offered jobs in many countries.

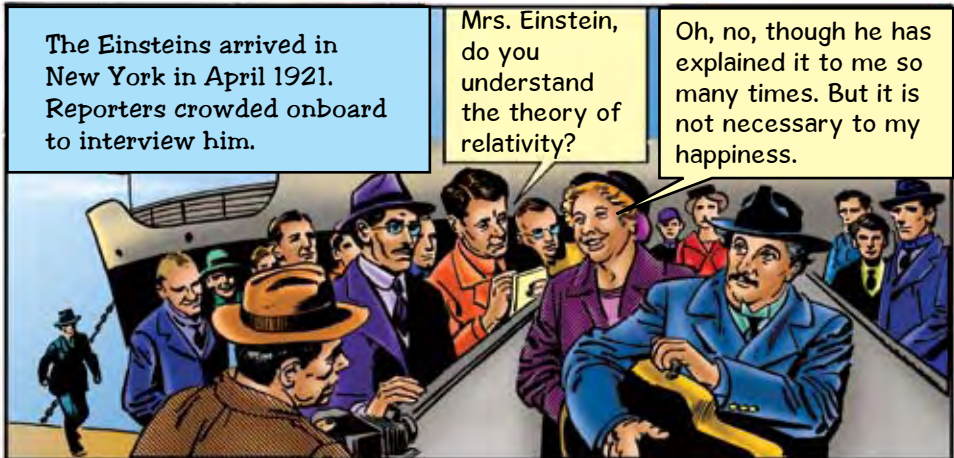
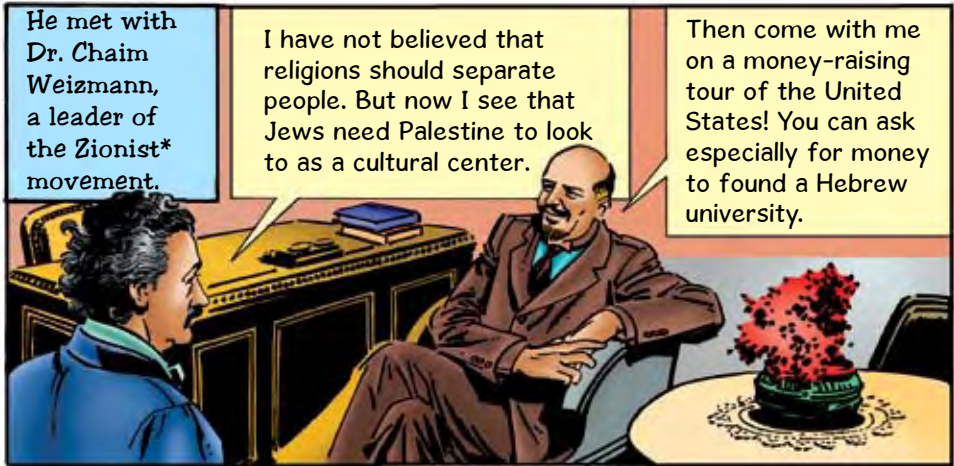
The more attention I receive, the more some Germans hate me! Because I am a Jew. Because I am a pacifist. Perhaps I should leave Germany.



The attacks on you are shameful, but only by riff-raff. We need you in Germany!

Yes, now that Germany is a republic, there is new hope for peace in Europe! I will stay and help!





* a Jewish movement in response to growing anti-Semitism that sought to reestablish a Jewish homeland in Palestine

He was invited to the White House. Columbia University gave him a medal. Princeton University gave him an honorary degree.



In the next few years, he would visit many countries. All over the world he was honored and loved.

Albert, you have won the Nobel Prize!



That's very nice! I promised to give the money to Mileva to educate my sons.

In Japan, a national holiday was held in his honor.



In one country only was he not honored. In Germany, Hitler and his followers blamed the Jews and Einstein for all their troubles.



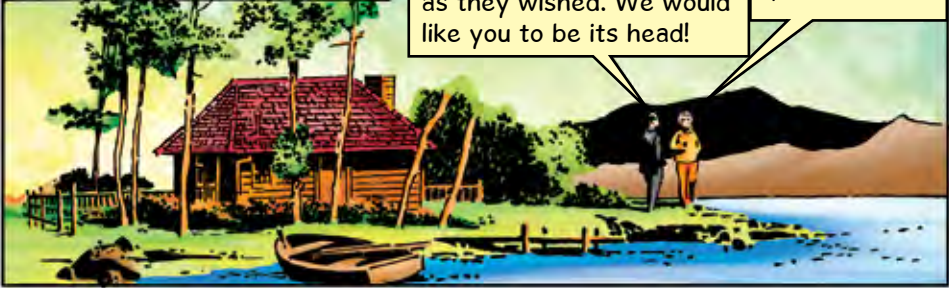
Albert, please leave Germany! These Nazis have shot our great foreign minister, Dr. Rathenau. They threaten to kill you!

The Nazi party is only a small part of Germany. I must stay here and help to defeat them.

But in the next ten years, the Nazi party in Germany grew stronger. And Einstein had a visitor from America.

We are planning an institute of great scholars at Princeton, New Jersey. They would have no duties except to study and work as they wished. We would like you to be its head!

Perhaps, if I could spend a few months there each year.



His family and friends grew more afraid for his safety.

The Nazis grow more threatening every day.

They attack you by name. They call your theory of relativity a Jewish plot against the world!



There is a rumor that they have offered a \$5,000 reward to anyone who will kill you!

I had not realized my head was worth so much!



Albert, it is no joke. Please, you must leave Germany!

We have a trip already planned. I'll go to the United States for a winter at the California Institute of Technology.



After the winter in California, the Einsteins were preparing to return home.

Sir, Hitler has won the German election and taken control of the country! What will you do now?

I will not return to Germany under such conditions!

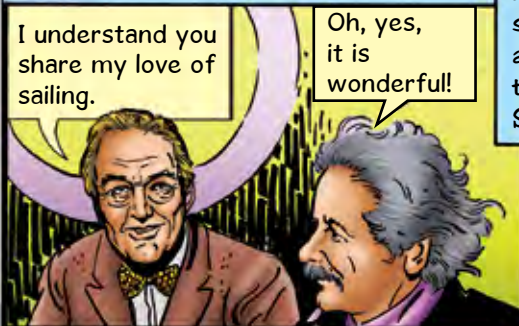


They returned briefly to Europe. Then, they came back to the United States to make Princeton their home.

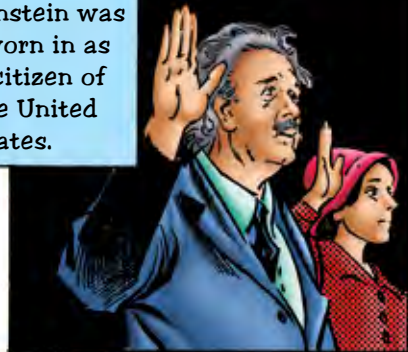
Soon they were entertained at the White House.

I understand you share my love of sailing.

Oh, yes, it is wonderful!



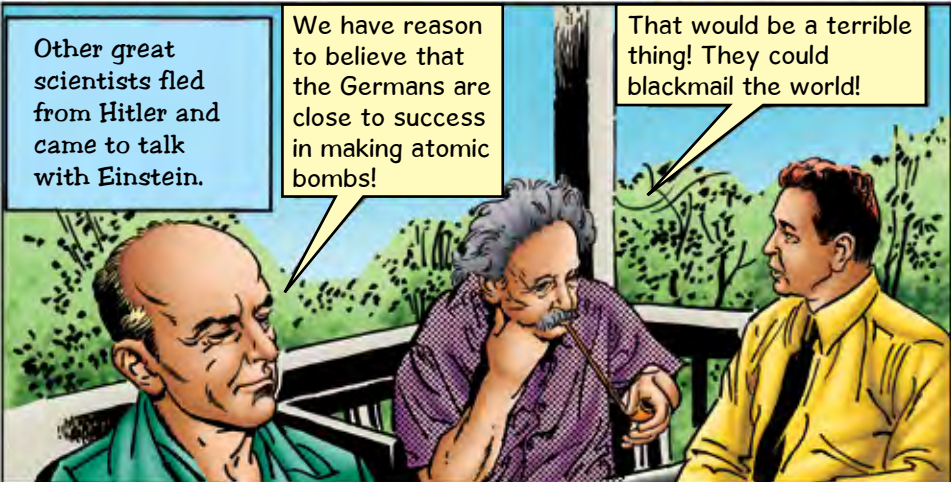
In 1940 Einstein was sworn in as a citizen of the United States.



Other great scientists fled from Hitler and came to talk with Einstein.

We have reason to believe that the Germans are close to success in making atomic bombs!

That would be a terrible thing! They could blackmail the world!

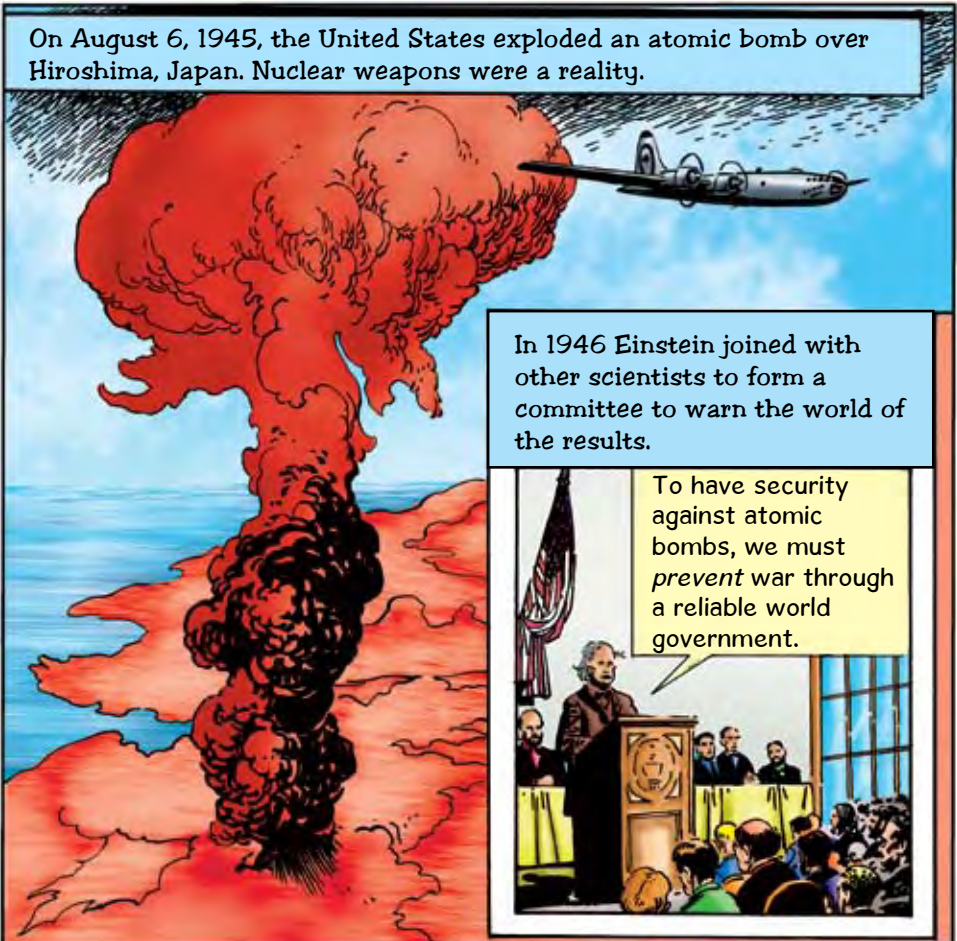


I will write to President Roosevelt calling his particular attention to this possibility.



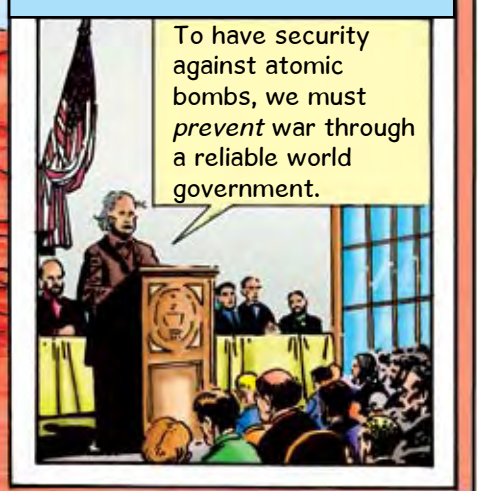
Einstein's letter to Roosevelt became famous. The United States entered the race for atomic power. German armies overran Europe. Japanese forces attacked the United States.

On August 6, 1945, the United States exploded an atomic bomb over Hiroshima, Japan. Nuclear weapons were a reality.



In 1946 Einstein joined with other scientists to form a committee to warn the world of the results.

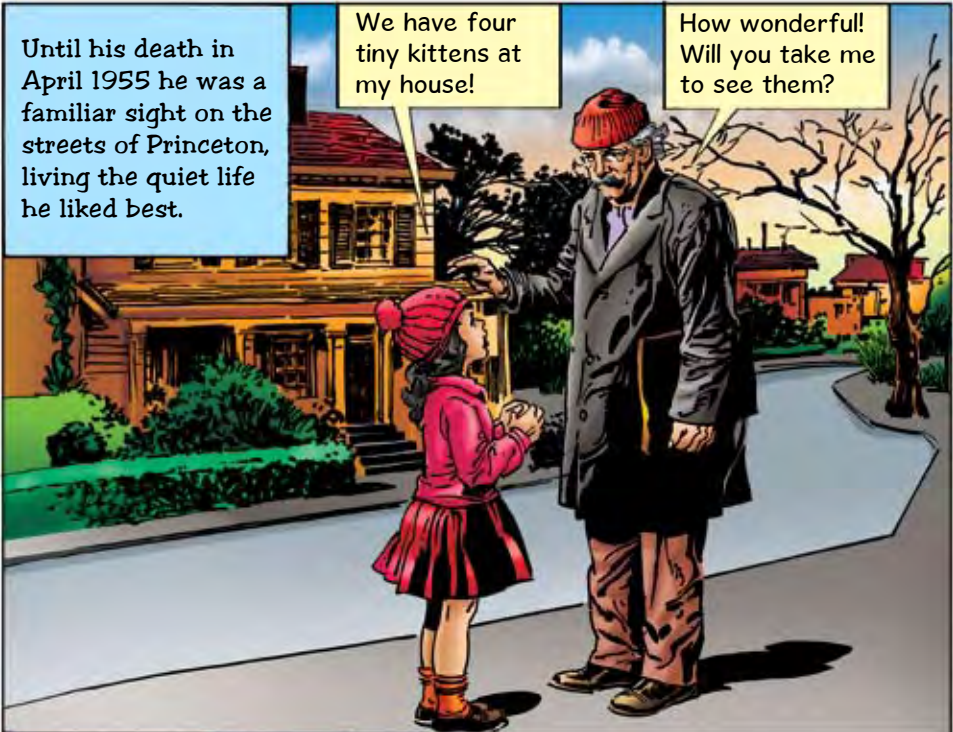
To have security against atomic bombs, we must *prevent* war through a reliable world government.



Until his death in April 1955 he was a familiar sight on the streets of Princeton, living the quiet life he liked best.

We have four tiny kittens at my house!

How wonderful! Will you take me to see them?

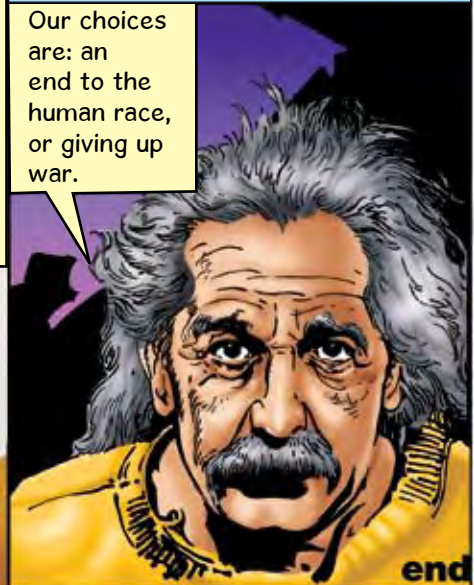
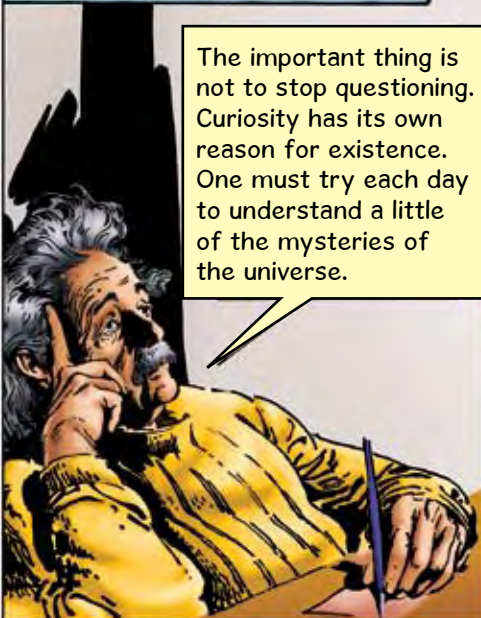


He never stopped working. First there was science.

And then there was the fight for a peaceful world, faced with the threat of atomic war.

The important thing is not to stop questioning. Curiosity has its own reason for existence. One must try each day to understand a little of the mysteries of the universe.

Our choices are: an end to the human race, or giving up war.





— TITLES IN THIS SERIES —

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